

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P828409

Luminaire Tested: **OHBL-36SE-W-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828409
REPORT IS A COMBINATION OF REPORTS P826178 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36SE-W-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

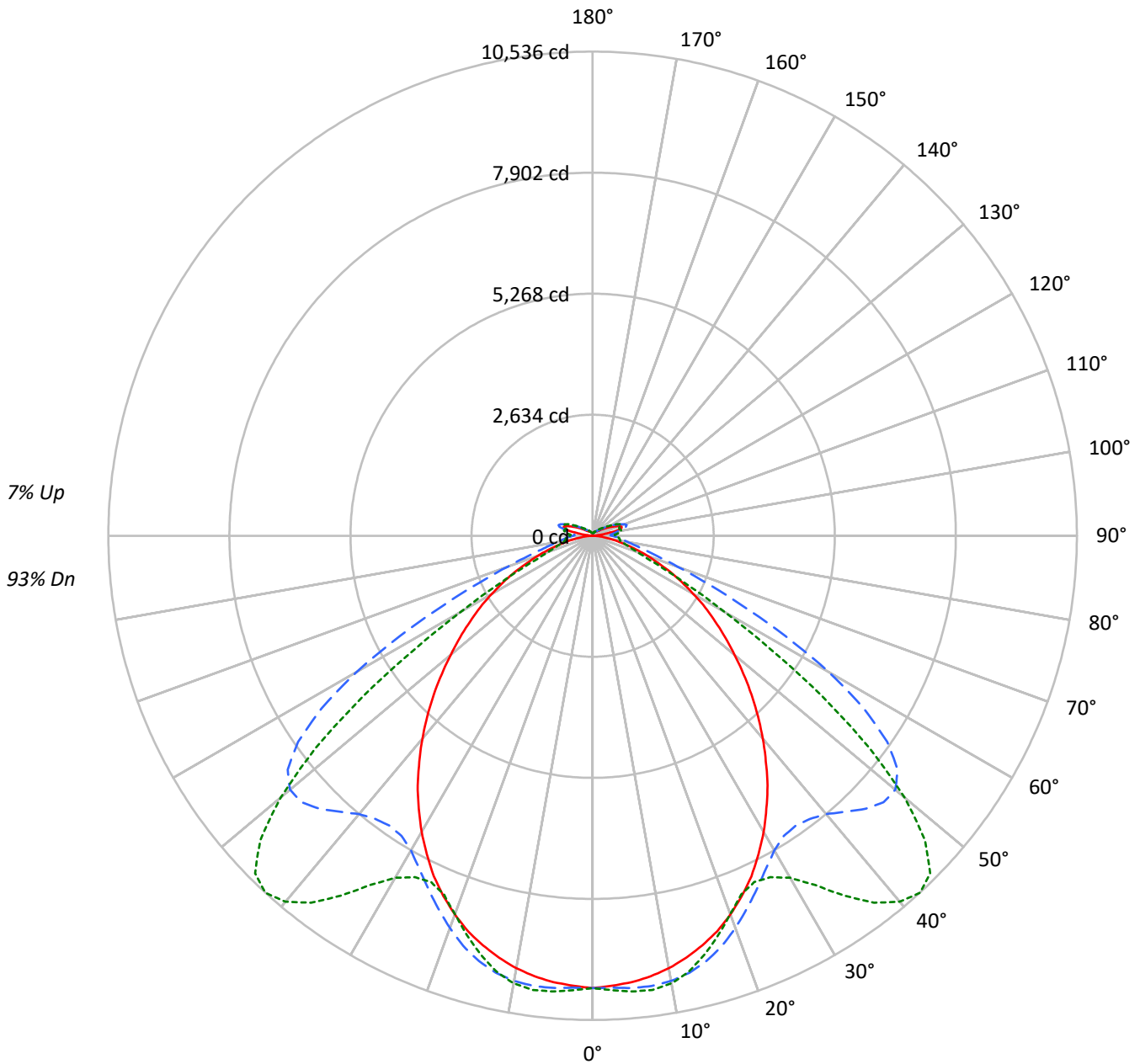
Lumens per Lamp: N/A
Luminaire Lumens: 31024.3 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	108	103	99	95	104	100	96	93	95	92	89	89	87	85	85	83	81	81	81	81	79
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	69	69	69	69	66
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	58	58	58	56
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	50	50	50	48
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	43	43	43	41
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	38	38	38	36
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	33	33	33	31
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	30	30	30	28
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	27	27	27	25
10	52	39	31	26	50	38	30	25	36	30	25	35	29	25	34	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15565	15565	15565
5°	15355	15550	15742
10°	15098	15533	15761
15°	14740	15283	15255
20°	14274	14765	14508
25°	13675	14136	14217
30°	12901	13669	15299
35°	12031	13930	17903
40°	11035	15096	20697
45°	10001	17135	22246
50°	8930	18963	20703
55°	7922	18957	15818
60°	6899	16056	9671
65°	5827	11103	5859
70°	4633	7191	4230
75°	3413	5168	3922
80°	2320	4559	4425
85°	1404	5052	6994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.5	3.0
10°-20°	2663.2	8.6
20°-30°	3897.1	12.6
30°-40°	5061.2	16.3
40°-50°	6180.4	19.9
50°-60°	5442.8	17.5
60°-70°	2836.3	9.1
70°-80°	1216.3	3.9
80°-90°	588.0	1.9
90°-100°	423.3	1.4
100°-110°	687.6	2.2
110°-120°	545.0	1.8
120°-130°	268.1	0.9
130°-140°	134.1	0.4
140°-150°	75.1	0.2
150°-160°	40.7	0.1
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	7500.8	24.2
0°-40°	12562.1	40.5
0°-60°	24185.3	78.0
0°-90°	28825.9	92.9
90°-120°	1655.9	5.3
90°-150°	2133.2	6.9
90°-180°	2198.0	7.1
0°-180°	31024.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9842	9842	9842	9842	9842	
5°	9750	9825	9878	9965	9954	925
15°	9226	9485	9576	9504	9428	2598
25°	8175	8612	8466	8307	8315	3752
35°	6636	7336	7704	8984	9559	4136
45°	4886	6147	8402	10173	10385	3767
55°	3253	5385	7825	6861	6098	2919
65°	1866	3731	3582	1992	1714	1847
75°	752	1745	1151	788	748	820
85°	159	622	586	573	580	178
90°	6	247	416	481	496	14
95°	37	203	420	506	538	107
105°	653	712	744	623	598	620
115°	459	494	574	596	599	463
125°	232	249	306	326	327	217
135°	142	144	170	195	198	112
145°	111	108	113	127	131	69
155°	92	94	90	91	91	40
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9841.8	9841.8	9841.8	9841.8	9841.8
2.5°	9799.3	9841.8	9843.9	9903.4	9897.0
5°	9750.5	9824.8	9877.9	9965.0	9954.4
7.5°	9669.8	9786.6	9880.0	9975.6	9967.1
10°	9555.1	9714.4	9837.6	9916.1	9890.6
12.5°	9406.5	9616.8	9737.8	9754.7	9705.9
15°	9226.0	9485.1	9576.4	9504.2	9427.7
17.5°	9022.2	9325.8	9357.7	9200.5	9105.0
20°	8767.4	9113.5	9081.6	8865.0	8758.9
22.5°	8485.0	8879.9	8778.0	8550.8	8448.9
25°	8175.0	8612.4	8465.9	8306.6	8315.1
27.5°	7811.9	8308.8	8166.4	8238.7	8374.6
30°	7442.4	7990.2	7903.2	8323.6	8591.2
32.5°	7036.8	7663.2	7741.8	8572.0	9009.4
35°	6635.5	7336.2	7703.5	8984.0	9559.4
37.5°	6191.7	7005.0	7765.2	9459.6	10062.6
40°	5760.7	6682.2	7905.2	9886.4	10396.0
42.5°	5321.2	6393.5	8141.0	10139.1	10536.1
45°	4885.8	6147.1	8402.1	10173.0	10385.3
47.5°	4450.6	5939.1	8582.6	9903.4	9805.7
50°	4030.1	5754.3	8595.4	9255.8	8856.6
52.5°	3637.3	5584.4	8361.8	8223.8	7603.8
55°	3253.0	5384.8	7824.6	6860.6	6098.3
57.5°	2902.6	5108.9	6996.5	5395.5	4563.1
60°	2531.0	4735.1	5926.3	3947.4	3291.2
62.5°	2189.2	4270.1	4726.6	2747.6	2365.4
65°	1866.4	3730.8	3582.1	1991.7	1713.6
67.5°	1524.6	3172.3	2643.6	1452.4	1274.0
70°	1257.0	2654.2	1968.3	1129.7	1025.6
72.5°	983.1	2161.6	1471.5	917.3	860.0
75°	751.6	1745.4	1150.9	787.8	747.5
77.5°	554.2	1380.2	925.8	696.4	658.3
80°	388.6	1087.2	775.0	622.2	607.3
82.5°	261.2	840.8	660.3	592.4	594.5
85°	159.3	622.2	586.0	573.3	579.7
87.5°	76.4	441.7	503.2	522.4	528.7
90°	5.6	246.8	416.0	480.8	495.8
92.5°	11.3	200.7	387.6	461.1	478.6
95°	37.3	202.9	420.0	506.2	537.7
97.5°	173.8	293.5	483.0	576.4	596.7
100°	355.9	460.4	554.1	622.0	633.6
102.5°	553.2	628.8	615.6	624.0	623.0
105°	652.8	712.5	743.9	623.4	598.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	536.2	577.8	656.6	672.4	655.0
115°	458.8	493.7	573.5	595.9	599.3
117.5°	394.8	420.8	492.6	516.4	519.3
120°	332.2	355.3	420.4	443.2	443.6
122.5°	280.0	298.5	360.1	380.9	381.3
125°	232.2	249.0	306.0	326.5	326.8
127.5°	197.1	207.0	261.5	281.9	282.3
130°	172.8	178.8	222.2	244.3	249.4
132.5°	156.2	158.8	193.7	215.9	221.9
135°	141.5	144.1	169.6	194.7	197.7
137.5°	130.2	132.8	151.0	174.1	179.2
140°	120.6	123.2	134.2	157.2	160.2
142.5°	114.9	115.4	124.3	142.2	145.2
145°	110.9	108.4	113.1	126.7	130.9
147.5°	104.8	104.4	106.2	116.4	118.5
150°	99.6	101.3	98.9	103.9	109.0
152.5°	96.1	96.9	94.5	95.4	99.6
155°	91.7	93.5	90.2	91.0	91.0
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	661.0	716.2	778.2	680.5	609.0
110°	606.2	659.8	733.6	715.4	659.6



(END OF REPORT)